

## Water Quality Update

**City Council Meeting** 

Carol A. Rego, P.E.

October 4, 2022





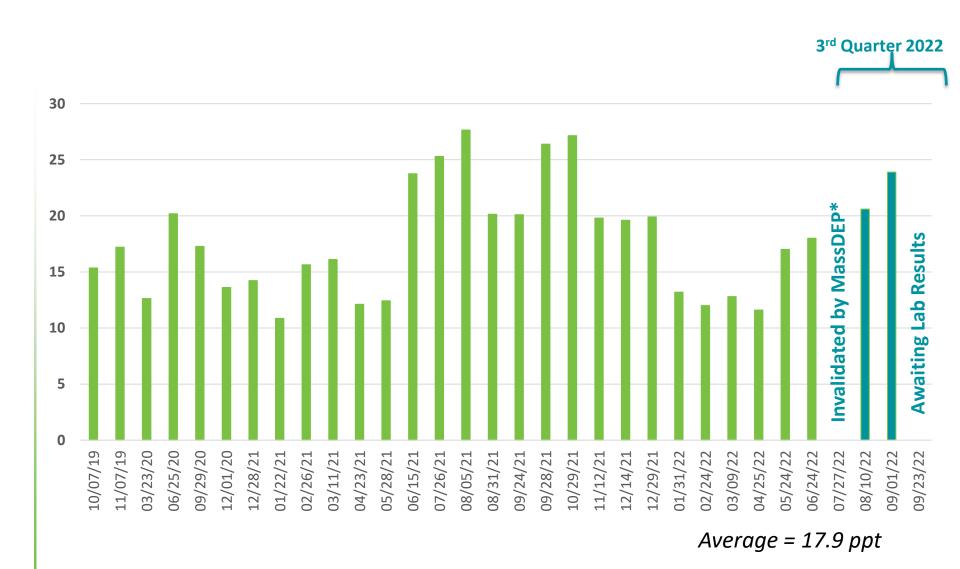
#### Outline

- 1. Update: PFAS Results for Horn Pond; Regulatory Info
  - 2. Update: What is the City Doing about PFAS?
    - 3. Update: Treatment to Remove PFAS
  - 4. Next Steps and Timeline
- 5. Questions/Discussion

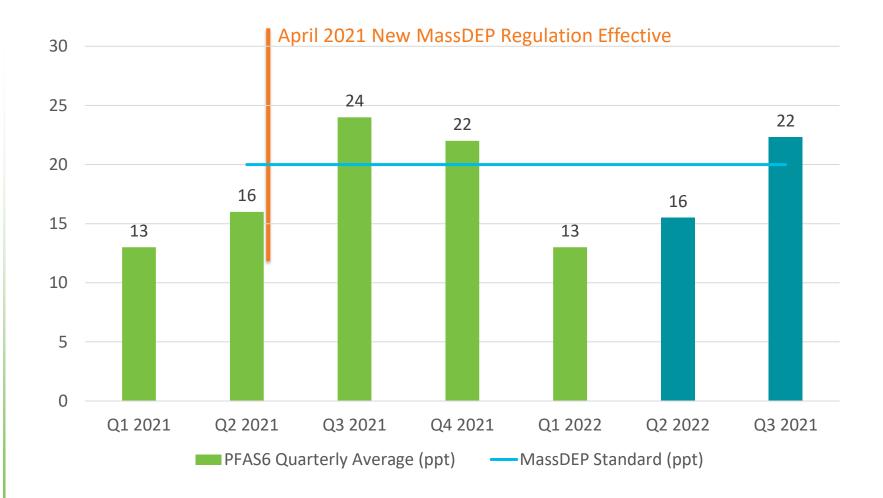


#### 1. **Update**: Horn Pond PFAS Results

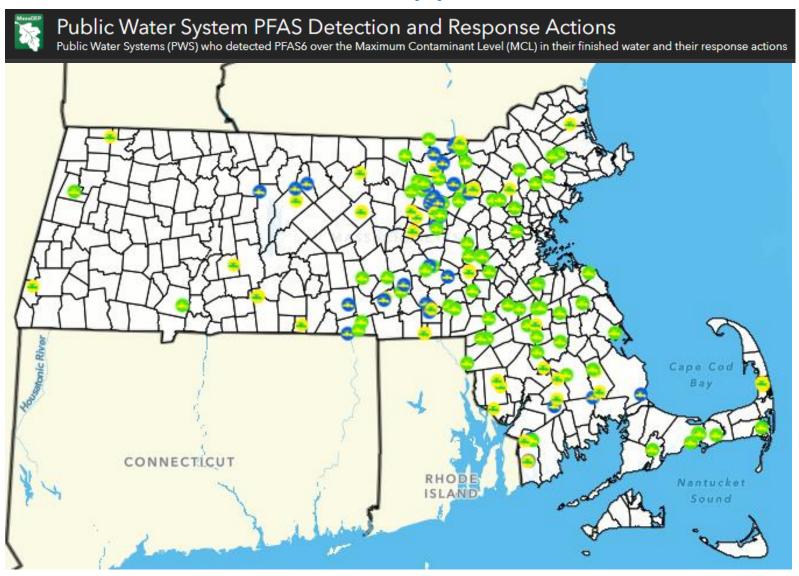
#### **Updated PFAS6 Sampling Results**



#### Compliance with MassDEP Standard



# Drinking Water Systems with PFAS6 Over MassDEP Standard of 20 ppt



#### Why Did EPA Issue New Health Advisory Levels?

- To protect public health & keep communities informed when new science becomes available
- Non-enforceable & non-regulatory
- Calculated to offer a margin of protection against adverse health effects <u>and</u> take into account other potential sources of exposure <u>beyond</u> drinking water

EPA estimates
that 80% of the
exposure to
PFAS is
attributed to
sources other
than drinking
water

PFAS Compound	EPA Health Advisory Level (June 2022)		Currently Regulated in Massachusetts?	Woburn Results (since 2019)	
	Value*	Туре	iii iviassaciiusetts:	Average*	Maximum*
PFOA	0.004**	Interim	Yes	7.1	10.4
PFOS	0.02**	Interim	Yes	8.0	11.0
Gen-X	10	Final	No	Never detected	Never detected
PFBS	2,000	Final	No	3.9	5.1

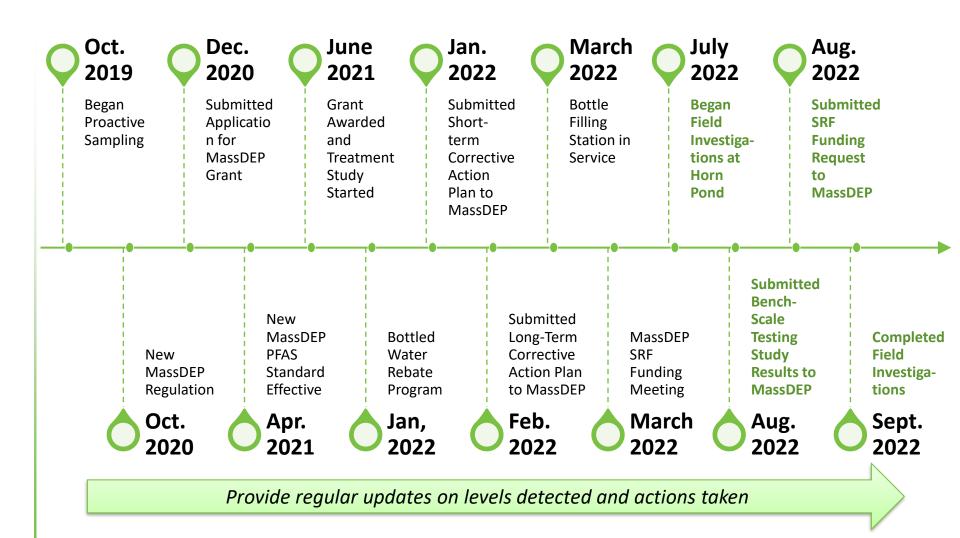
<sup>\*</sup> All values in parts per trillion

<sup>\*\*</sup> Below levels that can be measured by current technology



2. **Update**: What is the City Doing about PFAS?

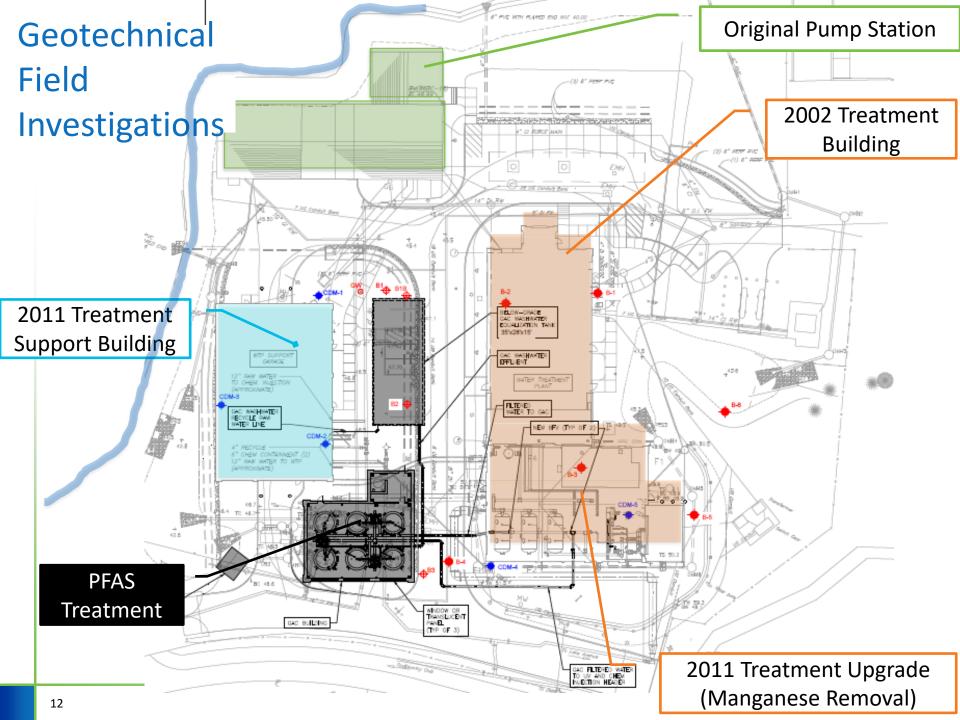
#### Update: What is the City Doing?





3. **Update**: Treatment to Remove PFAS





#### Field Investigations

- Geotechnical
  - Four borings advanced on July 7 and 8
  - 1 boring encountered refusal and terminated at depth of ~ 6 feet
  - 3 borings were advanced to a depth of about 26 feet
- Topographic Survey and Wetlands Flagging
- Ground Penetrating Radar (underground utilities)

Awaiting data and CADD files



### 4. Next Steps and Timeline

#### **Next Steps**



Submit Conceptual Design to MassDEP as part of Long-Term Corrective Action Plan (due February 8)



Meet with Clean Water Trust re: funding process (including state disbursement of federal Infrastructure funds)



Site investigations

- Subsurface investigations (borings)
- Survey
- Environmental features (wetlands flagging, etc.)



August 2022 – Submit funding application (State Revolving Fund; potential infrastructure funding)

- Design (30/60/90/100% milestones)
  - Cost estimates at 60 and 100%
- Permitting
- Bidding/contract award
- Construction
- Startup

n Parallel



#### 5. Questions/Discussion